DESCRIPTION

Leucovorin is one of several active, chemically reduced derivatives of folic acid. It is useful as an antidote to drugs which act as folic acid antagonists.

Also known as folinic acid, Circovorum factor, or 5-formyl-5,6,7,8-tertahydrofolic acid, this compoun has the chemical designation of L-Clatansic acid, N-[4-l][2-animo-5-formyl-1,4,5,6,7,8-brashydro-4-oxo-6-peridinyl)methyl Jimino Benzoyll-calcium salt (1:1). The structural formula of leucovorum challenges of the control of the contro

Leuceveria Calcium Injection, USP is a sarelle, preservative-free solution inde and for intummence (M) for introversos (N) Infessionation in a SD ad. single-dues vial. Each ad. contain leuceverin calcium-equivalent to 1 mg Leuceverin (13%) fin goodbare therefore in contamination and the production and the displacement (14.5 of a D. 3.5).

There is 10.40 et al. of calcium-pre mg of leuceverine calcium. Solution contain in hacterioust or anteriorbid a spont.

Ge-Frenche and perfect health is a single parabolitated (via. 5, 10-week) the context period period before the context period of the context period before the context period

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## CONTRAINDICATIONS

Leucovorinis improper therapy for perticious assertia and other megaloblassic assertias secondary to the lack of vitarrin  $B_{12}$ . A hernatologic remission may occur while neurologic manifestations cortinue to progress.

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Diarrhea and/or Stomatitis	WBC/mm <sup>3</sup> Nadir	Platelets/mm <sup>2</sup> Nadir	5-FU dose	
Moderate	1,000 to 1,900	25 to 75,000	decrease 20%	
Severe	<1.000	<25.000	decrease 30%	

If no toxicity occurs, the 5-fluorouncil dose may increase 10%. Treatment should be deferred un WBCs are 4,000 turn' and planties 130,000 turn. It blood courts do not reach these twels within weeks, treatment should be discontinued. Parients should be followed up with physical examination price to each treatment course and appropriate radiological examination as needed. Treatment should discontinued when there is clear evidence of turner progression.

Drug Interactions

Folic acid in large amounts may counteract the antiepiloptic effect of phenobarbital, phenytoin and primidone, and increase the frequency of seizures in susceptible pediatric patients. Premiumo, and texture the tresporting of settures in succeptible pediatric pulsets.

Preliminary arising and human studies how both out foul study justifies of systemically administered lextcoorsin enter the CSF primity on 5-methylateshydroficlate and, in human, remain 1 to 3 orders of magnitude lower datas to usual mothestane concernations following interface in distinsistation. However, high doses of lexicoorsin may reduce the efficacy of intrahecilly administered methorsexate.

the use of Inucovarianer se.

Table 1 summatives significant adverse evens occurring in 316 patients reased with the Inucovaria5-fluorouscil combinations compared against 70 patients reased with 5-fluorouscil alone for advanced colorectal carcinum. These data are used from the MayoNCTF Large multicenter prospective trial evaluating the efficacy and safety of the combination regimen.

# Table 1: PERCENTAGE OF PATIENTS TREATED WITH LEUCOVORIN/FLUOROURACIL FOR ADVANCED COLORECTAL CARCINOMA REPORTING ADVERSE EXPERIENCES OR HOSPITALIZED FOR TOXICITY

	(High LV*)/SFU		(Low LV <sup>†</sup> ) /SFU			5- FU Alone		
		N=155	5		N=161		(3	i=70)
	Am <sup>4</sup> Grade 3		+ 5 Am <sup>2</sup> Gr		Stade 3+	ade 3+ § Anv‡		
	96		96	96	9	6	%	%
Leukopenia	69		14	83		13	93	48
Thromboc ytopenia	8		2	8	1		18	3
Infection	8		1	3	1		7	2
Nausea	74		10	80	5		60	6
Vomiting	46		8	44	9		40	7
Diarrhea	66		18	67		4	43	11
Stomatitis	75		27	84		19	59	16
Constination	3		0	4		)	1	
Lethargy/Malaise Fatigue	13		3	12	- 2		6	3
Alopecia	42		5	43			37	7
Dermatitis	21		2	25	1		13	-
Anorexia	14		1	22	4		14	
Hospitalization For Toxicity * High LV = Leucov		5%			15%		7	%

High Let - Lawson or 20 mg/m<sup>2</sup>

<sup>2</sup> Low LV = Leucovor 20 mg/m<sup>2</sup>

<sup>3</sup> Any = percentage of patients reporting toxicity of any severity

<sup>4</sup> Grade 3+ = percentage of patients reporting toxicity of Grade 3 or higher

To report SUSPECTED ADVERSE REACTIONS, contact Ingenus Pharmaceuticals, LLC at: 1-877-748-1976 or the FDA at 1-800-FDA-1088 or wew.fda.gov/menbeatch.

### DOSAGE AND ADMINISTRATION

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Either of the clinicity two registems is recommended.

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### Leucovorin Res cue After High-Dose Methotrexate Therapy

The recommendations for leucovorin rescue are based on a methotrexate dose of 12 to 15 grams/m<sup>2</sup> administered by intravenous infusion over 4 hours (see methotrexate package insert for full prescribing information).

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# Table 2: GUIDELINES FOR LEUCOVORIN DOSAGE AND ADMINISTRATION DO NOT ADMINISTER LEUCOVORIN INTRATHECALLY Laberatory Findings

Secum methors exate level approximately 10 micromolar at 24 hours after administration, 1 micromolar at 48 h

Patients who experience delayed early methorecase elimination are likely to develop reversible renal failure. In addition to appropriate leucovorin threapy, these patients require continuing hydration and urinary sikelization, and close moritoring of fluid and electrolyte states, until the serum methorecaste level has failure to below 0.05 micrombar and the renal failure has resolved.

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Hydration (3.Lid) and urinary alkalinization with so dium bicarbonate solution should be employed concomitantly. The bicarbonate dose should be adjusted to maintain the urine pH at 7.0 or greater.

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HOW SUPPLED
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1. McGrier R, St.L., Heyers J. et al. "Absorption kinetics of enally administrated Leuconoria Cartina" NCH Bongs 1987;547-56.

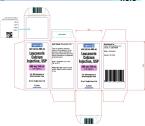
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